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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/830,816	04/27/2001	Ahti Muhonen	P279256	2170
909	7590 08/09/2005		EXAMINER	
	RY WINTHROP SHAW	DAO, MINH D		
P.O. BOX 10500 MCLEAN, VA 22102			ART UNIT	PAPER NUMBER
Wezzi i,			2682	
			DATE MAILED: 08/09/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summer.	09/830,816	MUHONEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	MINH D. DAO	2682			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 27 Ju	<u>ne 2005</u> .				
2a) ☑ This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.				
3) Since this application is in condition for allowant closed in accordance with the practice under E					
Disposition of Claims					
4) Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers		•			
9) The specification is objected to by the Examine	r.	•			
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex		·			
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary Paper No(s)/Mail Da				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ratent Application (PTO-152)			

### **DETAILED ACTION**

## Response to Arguments

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment made to claims 1 and 16 received on 07/13/2004 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8,14,15,16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huttunen et al. (US 6,356,761) in view of Forslow (US 6,608,832).

Regarding claim 1, Huttunen teaches a method for providing location service information related to a mobile station in a mobile communications system (see fig. 3; col. 2, lines 1-48) supporting connections of a first type and a second type (see col. 3, lines 1-7), the method comprising: receiving a request from a requesting entity;

retrieving the location service information related to the mobile station; and providing a response to the request (see col. 3, lines 8-26); and performing, in the retrieving step, at least a first attempt to retrieve the location service information 9see col. 2, lines 42-48) via the preferred type of connection (see col. 3, lines 1-7, and 27-35). Huttunen also teaches determining a type of connection based on the first set of predetermined criteria (see col. 6, line 62 to col. 7, line 14). However Huttunen fails to teach the determining a preferred type of connection. Forslow, in an analogous art, teaches determining a preferred type of bearer (i.e. connection) based on the quality of service parameters or the time delay of the application or the natures of the application (i.e. the real time service or non-realtime service) (col. 5, line 52 to col. 6, line 47). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the teaching of Forslow to Huttunen in order to provide better service for different types of applications regarding time of service as suggested by Forslow.

Regarding claim 2, the combination of the teachings of Huttunen and Forslow teaches the method of claim 1 wherein the first set of predetermined criteria is determined by checking whether the mobile station currently has an active connection via at least one type of connection (reference Forslow, col. 5, lines 52-65).

Regarding claim 3, the combination of the teachings of Huttunen and Forslow teaches the method of claim 2 wherein the checking is based on examining the request (reference Huttunen, col. 3, lines 1-35).

Regarding claim 4, the combination of the teachings of Huttunen and Forslow teaches the method of claim 1, wherein if the first attempt results in a failure, a second set of predetermined criteria is determined based on a reason for the failure, and the retrieving comprises performing a second attempt via remaining types of connection in response to fulfillment of the second set of predetermined criteria (see Forslow, col. 12, line 56 to col. 13, line 27).

Regarding claim 5, the combination of the teachings of Huttunen and Forslow teaches the method of claim 4, wherein the second set of predetermined criteria is fulfilled if: the lirst attempt fails but the reason for the failure is not "service not allowed"; and the second attempt via the remaining type of connection has not been unsuccessfully performed earlier (see Forslow, col. 12, line 56 to col. 13, line 27).

Regarding claim 6, the combination of the teachings of Huttunen and Forslow teaches the method of claim 1, wherein the first type of connection is circuit-switched and the second type of connection is packet-switched (reference Huttunen, Col. 3, lines 1-7).

Regarding claim 7, the combination of the teachings of Huttunen and Forslow teaches the method of claim 6, wherein if the mobile station is having an ongoing call, the

preferred type of connection is circuit-switched, otherwise it is packet-switched

(reference Forslow, col. 6, lines 34-47).

Regarding claim 8, the combination of the teachings of Huttunen and Forslow teaches

the method of claim 6, further comprising establishing circuit-switched communications

for the mobile station if the packet-switched communications are not established

(reference Forslow, col. 6, lines 34-47).

Regarding claim 14, the combination of the teachings of Huttunen and Forslow teaches

the method of claim 1 wherein the request is received by a Gateway Mobile Location

Centre (reference Huttunen, see Fig. 3, ISP 42), and the method further comprises

retrieving, by the Gateway Mobile Location Centre the location service information via a

Mobile Services Switching Centre (reference Huttunen, see col. 3, lines 8-26), which in

turn retrieves the location service information via a Serving Mobile Location Centre.

directly, if a circuit-switched connection has been established for the mobile station,

and, otherwise, indirectly, via a Serving GPRS Support Node (reference Huttunen, see

Fig. 3, col. 6, lines 27-60).

Regarding claim 15, the combination of the teachings of Huttunen and Forslow does not

directly teach the limitations of claim 15. However, it would be obvious that, referring to

Fig. 3 of Huttunen, the method of claim 14 above further comprising sending from the

Gateway Mobile Location Centre to the Mobile Services Switching Centre the address

of the Serving GPRS Support Node in order for all portions of the system to communicate with each other.

Regarding claim 16, the claim has the limitations as that of claim 1, and therefore is interpreted and rejected for the same reason set forth in claim 1.

Claims 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huttunen et al. (US 6.356,761) in view of Forslow (US 6,608,832) and further in view of Billstrom et al. (US Patent 5,590,133).

Regarding claim 9, the combination of the teachings of Huttunen and Forslow teaches that the first type of connection is circuit-switched and the second type of connection is packet-switched (reference Huttunen, Col. 3, lines 1-7). However, the combination of the teachings of Huttunen and Forslow fails to teach that the method of claim 6 further comprises establishing at least one implicit Packet Data Protocol context. Billstrom, in an analogous art, teaches an establishing of at least one implicit Packet Data Protocol context (Col. 18, lines 28-32). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the teaching of Billstrom to Huttunen and Forslow in order to have a communication system that would be able to provide integrated system concept that provides the new packet data services using TDMA cellular infrastructures to the extent with packet data functional performance requirements as taught by Billstrom (Col. 3, lines 62-67).

Regarding claim 10, the combination of the teachings of Huttunen, Forslow and Billstrom teaches the method of claim 9 wherein establishing the Packet Data Protocol context includes allocating a predefined Network layer Service Access Point Identifier value (Reference Billstrom, Col. 18, lines 12-19).

Regarding claim 11, the combination of the teachings of Huttunen, Forslow and Billstrom teaches the method of claim 9 further comprises establishing at least one implicit Packet Data Protocol context between the mobile station and a support node (Reference Billstrom, Col. 18, lines 8-11).

Regarding claim 12, the combination of the teachings of Huttunen, Forslow and Billstrom teaches the method of claim 9 further comprises establishing at least one implicit Packet Data Protocol context between the support node and a Serving Mobile Location Centre currently serving the mobile station (Reference Billstrom, Col. 18, lines 28-32; Also see Fig.16).

Regarding claim 13, the combination of the teachings of Huttunen. Forslow and Billstrom teaches the method of claim 9 further comprises establishing at least one explicit Packet Data Protocol context between the support node and a Serving Mobile Location Centre currently serving the mobile station (Reference Billstrom, Col. 18, lines 28-32; Also see Fig.16).

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MINH D. DAO whose telephone number is 571-272-7851. The examiner can normally be reached on 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NICK CORSARO can be reached on 571-272-7876. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Minh Dao (MAT) Art Unit 2682 July 24, 2005

NICK CORSANNER NICK CORSANINER ORIMARY EXAMINER